HITACHI

C2844S

Instructions for use **GB**

HITACHI

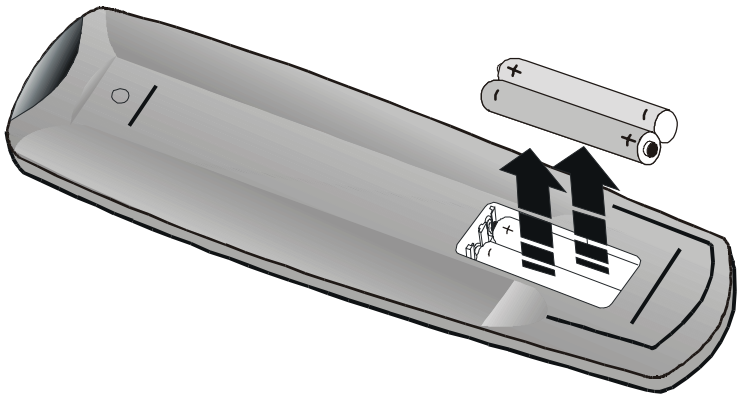
QUICK GUIDE

C2844S

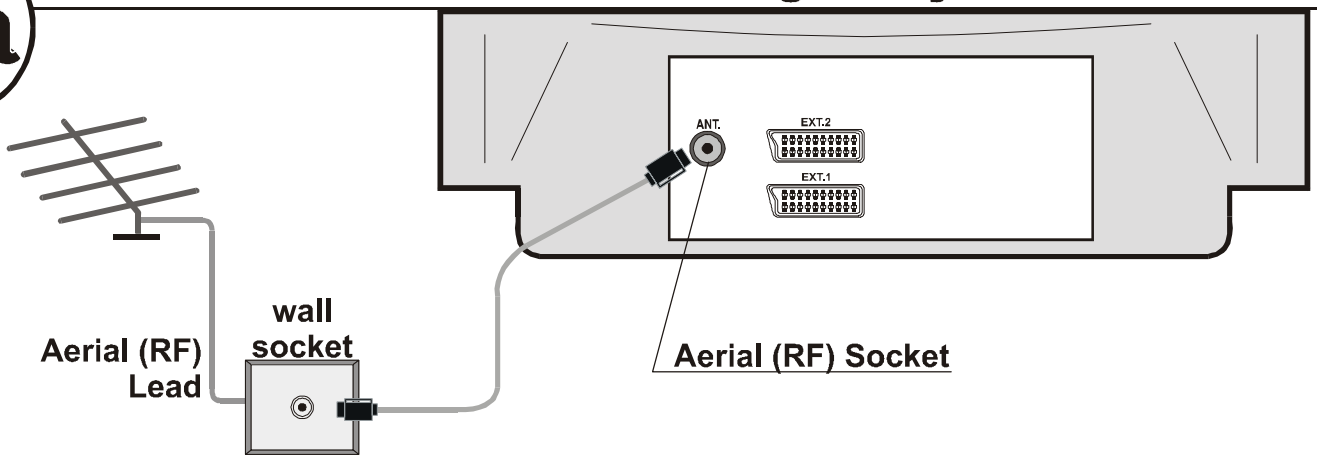
GB

IMPORTANT - If placing TV into cabinet or alcove, ensure there is at least a 100mm (10cm) gap to the sides, rear and top of the TV. This is to allow for adequate ventilation during operation. Please read the main Users Guide for more safety information before installation.

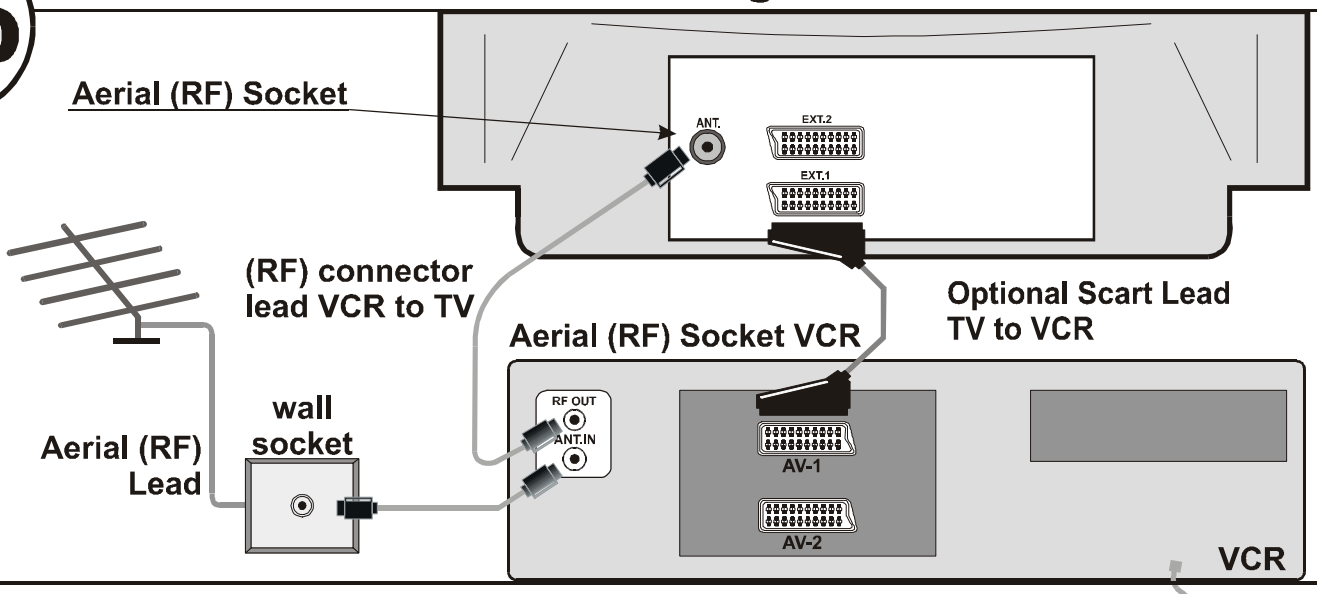
1 insert the batteries into your handset



2a either connect the aerial straight to your TV...

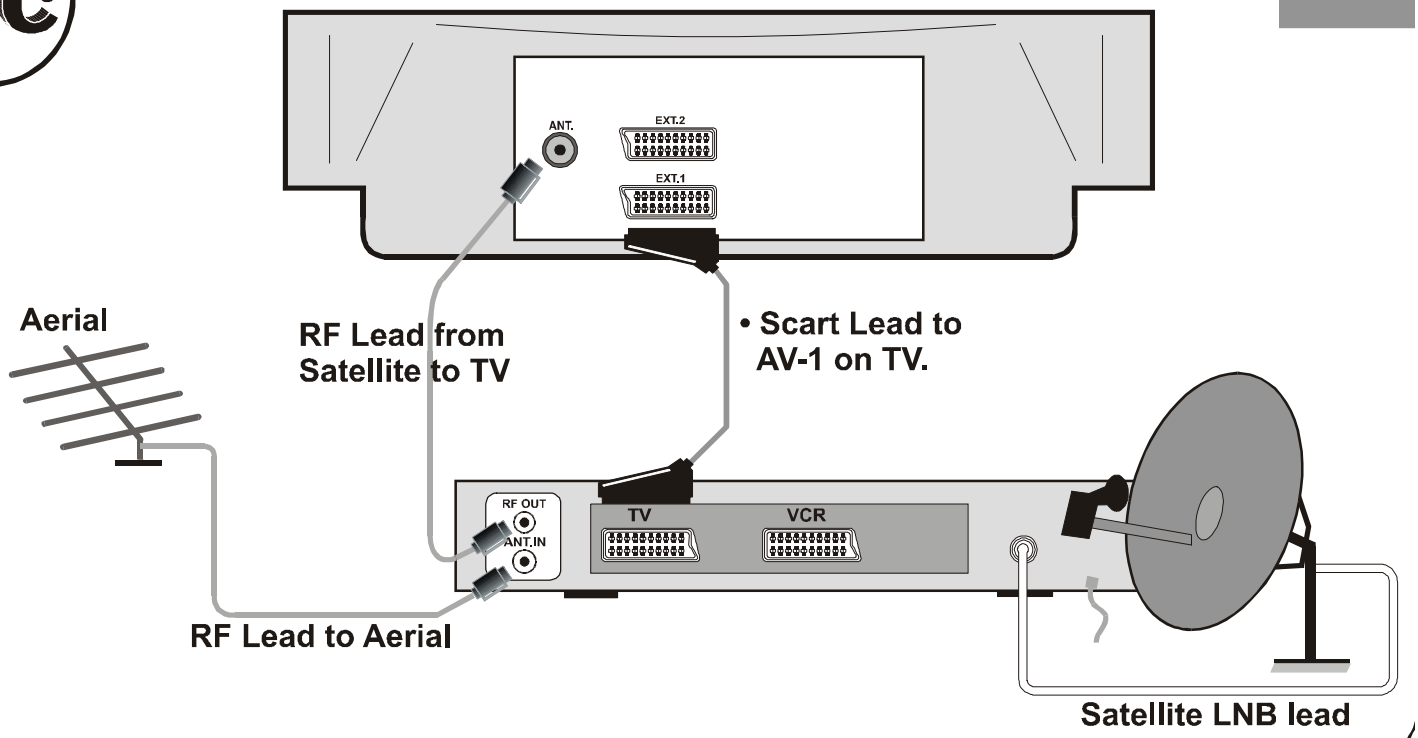


2b ...or connect the aerial through a VCR...

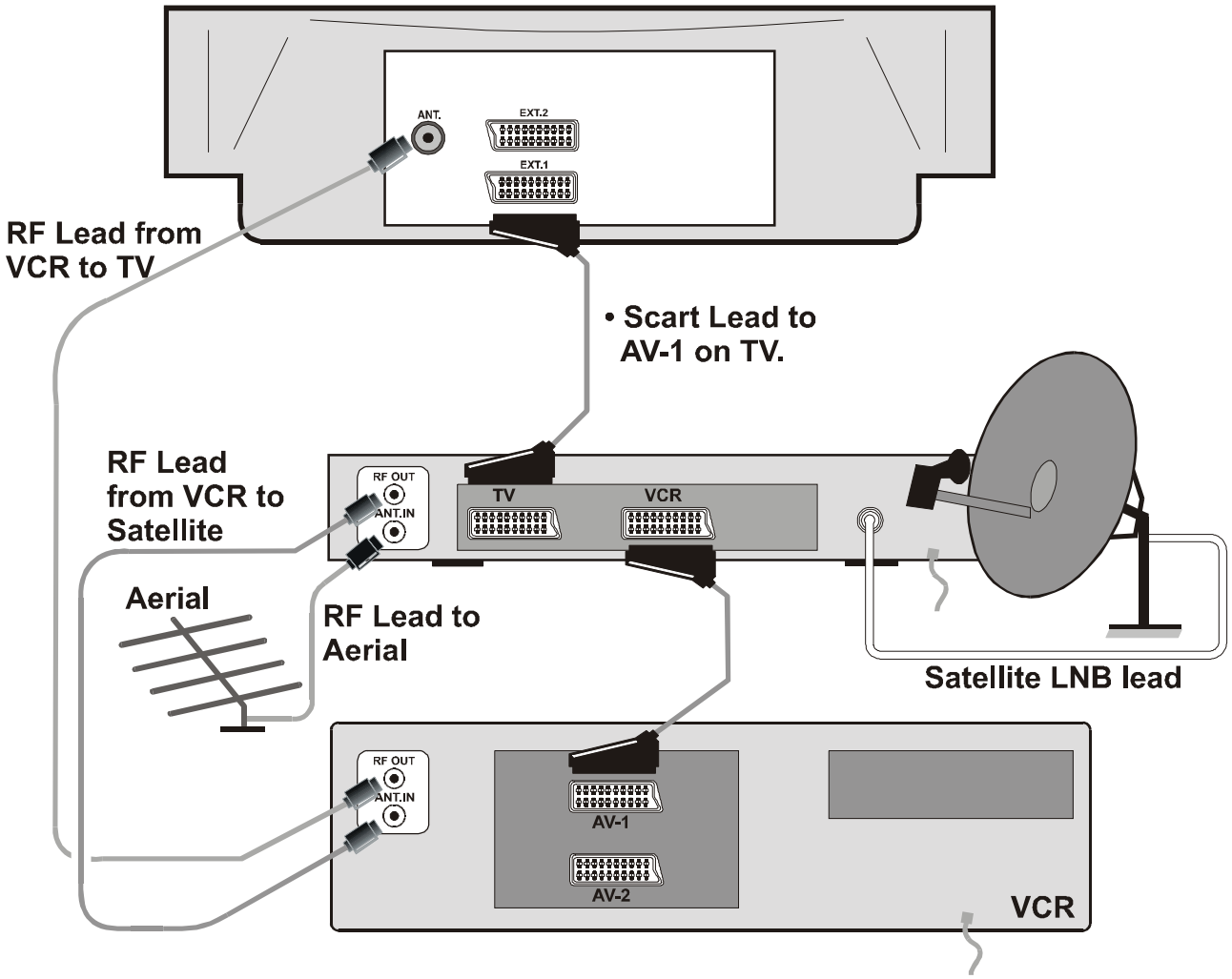


- It is recommended that a scart lead should be fitted between your TV and VCR to enhance your picture and sound quality. Scart leads are essential if you have a stereo TV and VCR and wish to obtain stereo sound from your equipment. These leads can be purchased from your Hitachi dealer or any good High Street electrical retailer.

2c ...or through a satellite decoder...

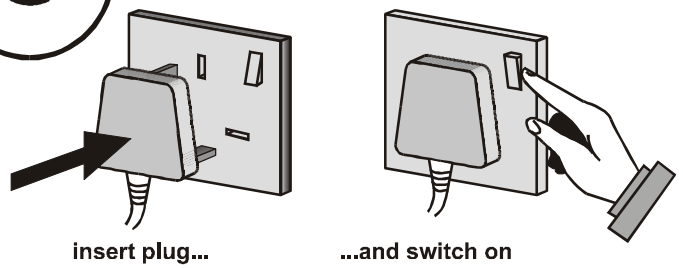


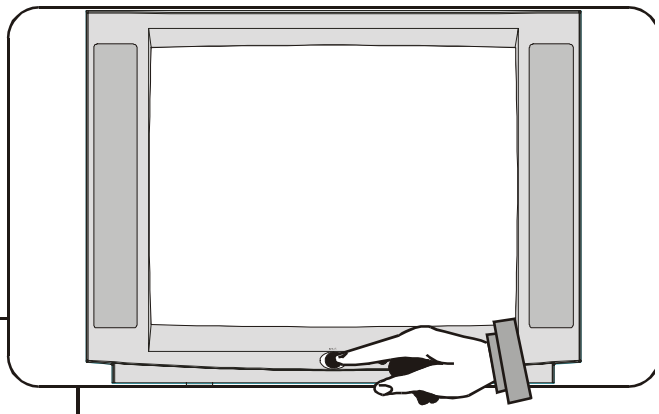
2d ...or through a VCR and satellite decoder.



GB

3 connect the TV plug to the mains socket

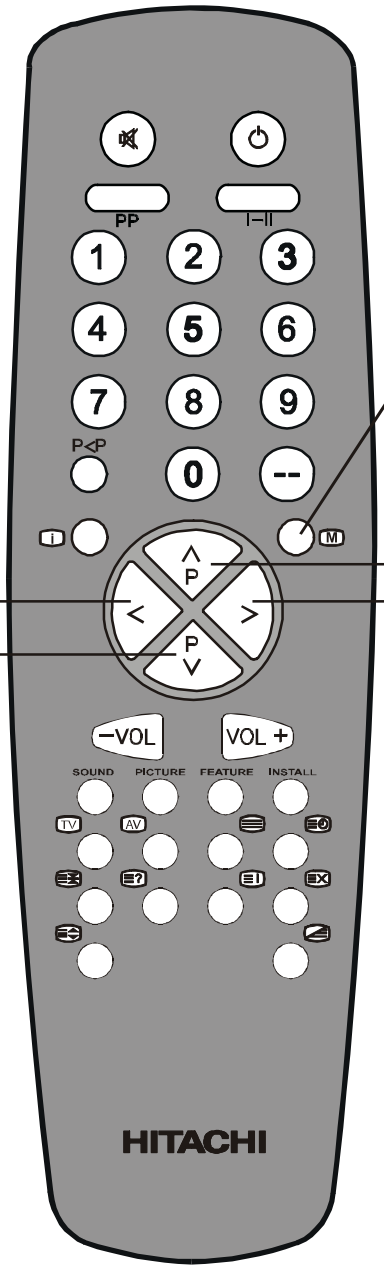




4 switch your TV on, ready to start Auto Setup procedure...

NB: When the set is first switched on, the set will be in standby.
Press the channel up down P∨ / P∧ or numeric buttons ①, ②, ③ to operate.

handset controls used for television Auto Setup



menu

Press this button to enter the main menu of the TV and again to exit the menu and return to normal TV operation.

cursor left <

This Button is used to move the menu selection box left or change a highlighted selection.

cursor up P∧

Use this button to move the menu selection box up.

cursor down P∨

Use this button to move the menu selection box down.

cursor right >

This Button is used to move the menu selection box right or change a highlighted selection.

GB

important note before starting Auto Setup

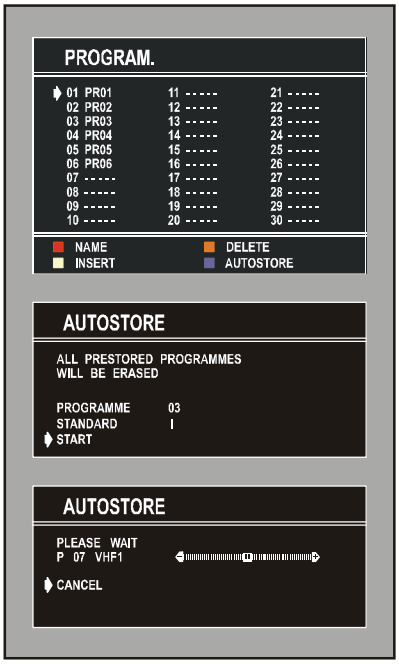
If you have a Video Cassette Recorder or a Satellite receiver connected to your TV please ensure that they are switched on before automatic tuning begins. In the case of a VCR, insert a pre-recorded tape and begin playback of your equipment. These measures ensure that all your external equipment is tuned in during the Auto Setup procedure.

5 start Auto Setup procedure

1. To automatically search and store tv channels press the "i" button to access the **PROGRAM.** menu.

2. Press the **BLUE** button, the **AUTOSTORE** menu will appear on the screen. Press the "P∨" button so that the arrow points to "**START**". Press the ">" button to begin the channel search.

3. Press "TV" button when search is completed.



Note: The "**STANDARD**" setting is fixed to "**I**". You cannot change this item's setting.

50041888

important note.

Once the TV has found all your local stations, they are then automatically assigned a programme number.

If you would like to change the programmes please refer to the Installation Menu section of the instruction book.

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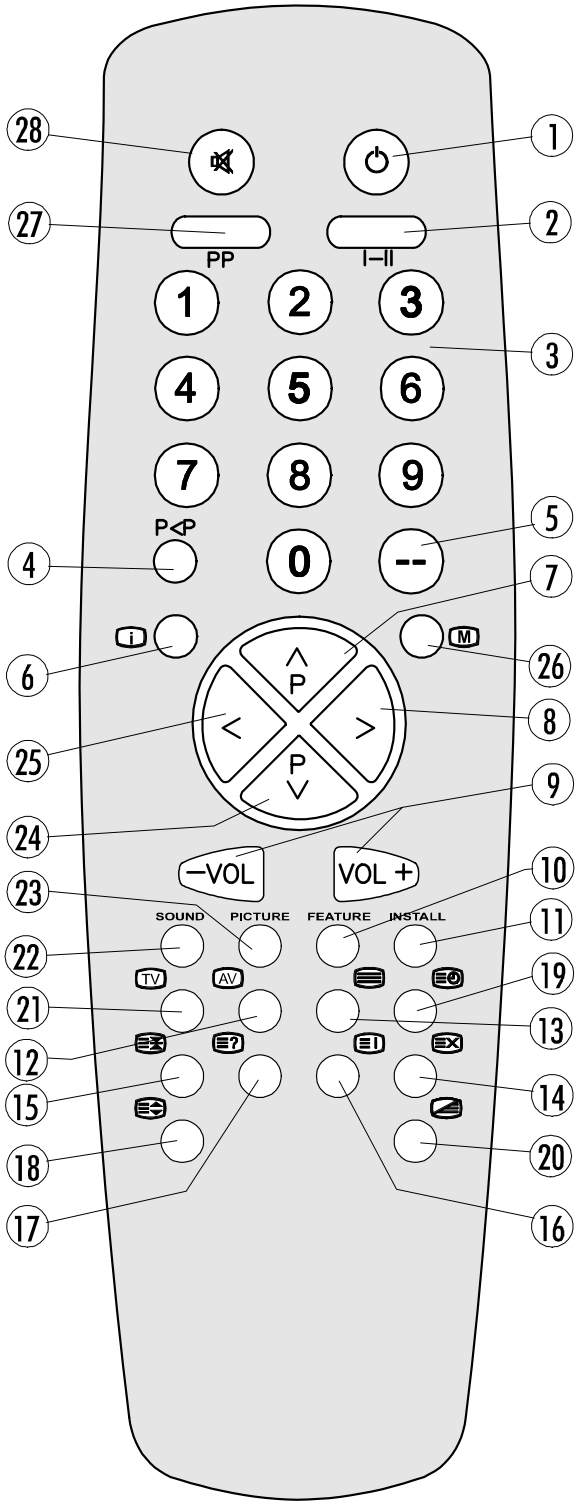
Remote Control Buttons

① ⏻ = Stand By
② **I-II** = Mono/Stereo - Dual I-II
③ **0 - 9** = Direct Program
④ P◁P =Previous Programme
⑤ **- -** = Double Digit
⑥ ⓘ = Info (Program Menu)
⑦ P̂ = Programme Up (Cursor Up)
⑧ ▷ = Cursor Right
⑨ **-VOL / VOL +** = Volume - / Volume +
⑩ **Yellow (FEATURE)** = Feature Menu
⑪ **Blue (INSTALL)** = Installation Menu
⑫ AV = External Source (**AV-1**, **AV-2**, **B-AV**, **RGB, SVHS**)

Teletext Buttons

⑬ = Teletext
⑭ = Update / Picture Mode Change (Auto / 4:3 / 16:9)
⑮ = Hold
⑯ = Index Page
⑰ = Reveal
⑱ = Expand
⑲ = Time
⑳ = Mix

㉑ TV = TV / Quit Menu
㉒ **Red (SOUND) =** Sound Menu
㉓ **Green (PICTURE)** = Picture Menu
㉔ P = Programme Down (Cursor Down)
㉕ ◁ = Cursor Left
㉖ M = Menu
㉗ PP = Change Picture Preset
㉘ = Mute



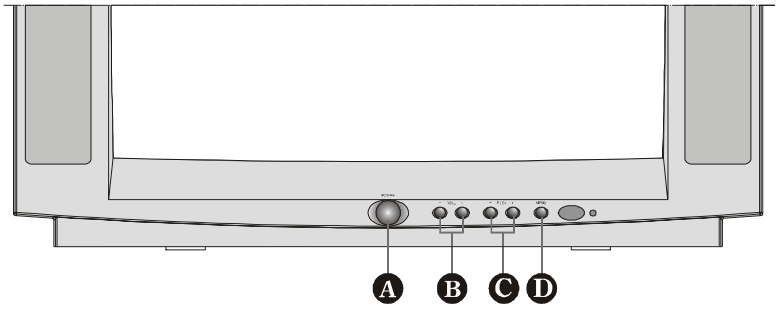
Control Panel Buttons

A **POWER** / ⏻ = Power On / Off

B **- VOL.+** = Volume - / Volume +

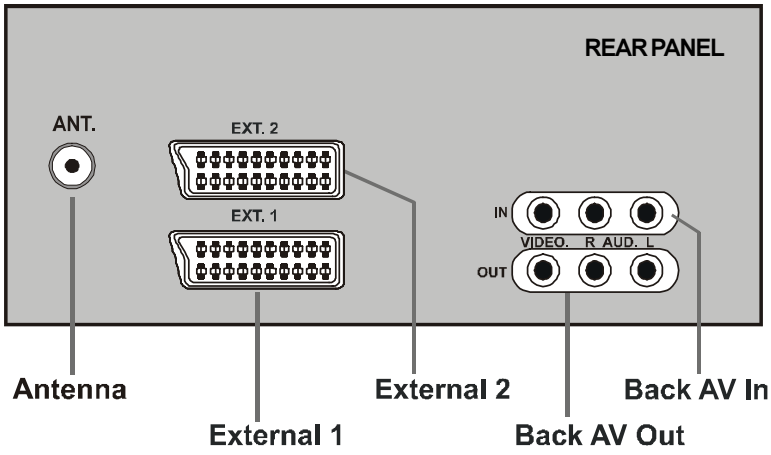
C **- P/Ch +** = Program - / Program +

D **MENU =** Menü



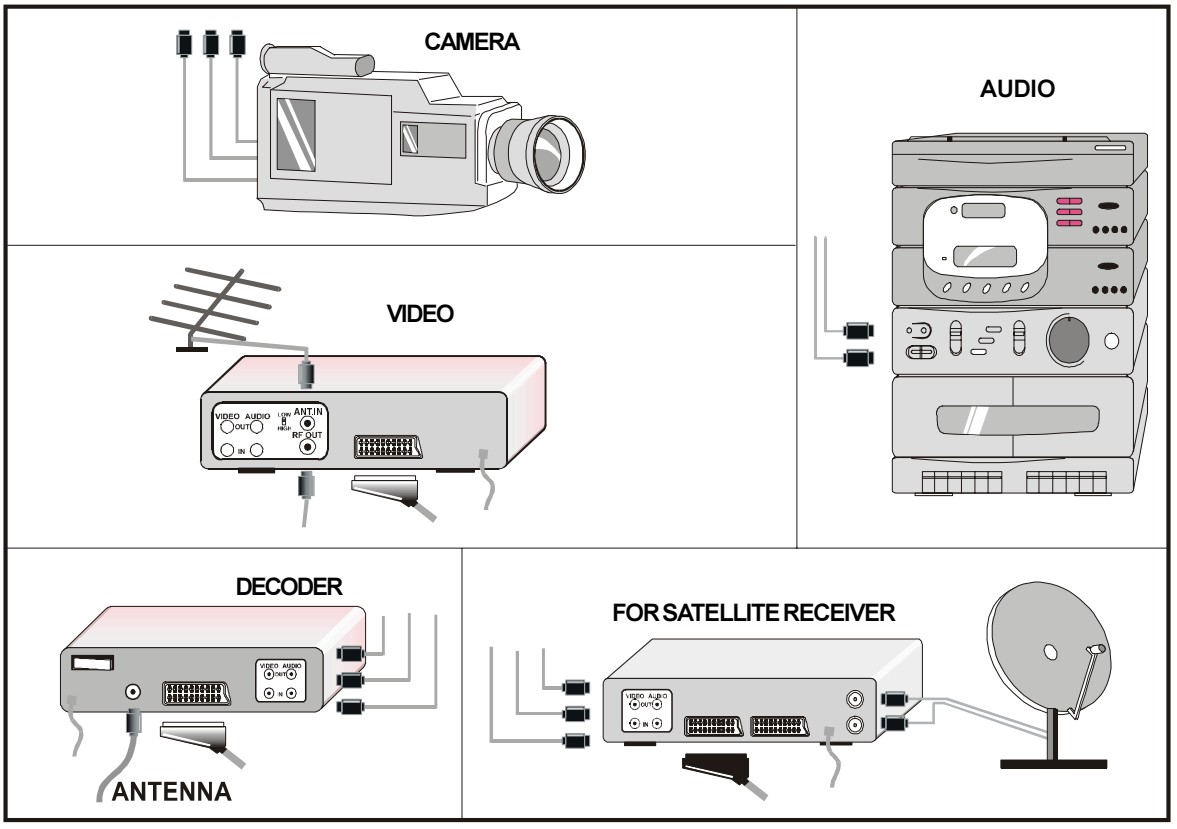
Connect Peripheral Equipment

There is a wide range of audio and video equipment that can be connected to your TV.
The connection diagrams show the back of the TV where the different equipment should be connected.



Back AV In:
AUDIO L / R = Audio left (white) / right (red)
VIDEO = VCR (Yellow)

Back AV Out:
AUDIO L / R = Audio left (white) / right (red)
VIDEO = VCR (Yellow)



Connect Peripheral Equipment

There is a wide range of audio and video equipment that can be connected to your TV.

The following connection diagrams show you where the different equipment should be connected at the back or the front side of the TV.

Via the Euroconnector

Your TV set has one or two Euroconnector socket. If you want to connect peripherals (e.g. video, decoder, etc.) which have Eurocon-nectors, to your **TV**, use **EXT.1** and **EXT.2** inputs.

If an external device is connected via Euroconnector sockets TV is switched to AV mode automatically. If the signal is **RGB** then the **RGB** OSD indicator is displayed on the screen.

In AV mode if you press the "i" button the TV status OSD is displayed on the screen.

RGB mode

If an equipment can output the **RGB** signals, connect it to the **AV-1 (EXT.1)** terminal.

- Select the **RGB** mode to watch images from that equipment.
- When not in the **RGB** mode, turn the **RGB** signals output equipment off.

Via Ant Input

If you want to connect to your TV, peripherals like video recorders or decoders, but the device you want to connect does not have Euroconnector, you should connect it to the ANT input of your TV set.

If the VCR is connected via antenna input it is suggested to use the Programme 0.

Decoder

Cable TV offers you a wide choice of programs. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.

For further information ask your dealer. See also the booklet supplied with your decoder.

Connect a decoder with an aerial socket to the TV

- Connect the aerial cable.

Connect a decoder without an aerial socket to the TV

- Connect the decoder to your TV with a eurocable / RCA Jack Cable to **EXT.1** and **EXT.2** / **RCA Jack**. When your decoder has a Euroconnector / RCA Jack you can obtain better picture quality if you connect a eurocable / RCA Jack Cable to EXTERNAL /RCA Jack.

TV and Video Recoder (VCR)

- Connect the Video Recorder to the ANT (antenna input) socket of the TV with the aerial cable.
- Connect the Video Recorder to the **AV-1** or **AV-2** terminal with the SCART cable, or connect it to the **B-AV** terminal with the audio and video cables.

Playback NTSC

Connect NTSC VCR player to Euroconnector at the back of the TV.

Then, press "AV" button to select **AV-1, AV-2, B-AV, RGB** or **SVHS**.

Copy Facility

Source selection for **VCR** recording.

- Select Features Menu in the Main Menu.
- Select **AV-2 OUTPUT** source pressing "◁" or "▷" button.

Search for and store the test signal of the video recorder

- Unplug the aerial cable from the aerial socket "**ANT**" of your video recorder.
- Switch on your TV and put the video recorder on the test signal. (See the handbook for your video recorder.)
- Enter the Tuning menu via the Install menu.
- Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Tuning, Search and Store TV channels. Store the test signal under programme number 0.
- Replace the aerial cable in the aerial socket "**ANT.**" of your video recorder once you have stored the test signal.

Camera and Camcorder

To connect to Back-AV input (B-AV)

Connect your camera or camcorder at the back side of your TV.

- Connect your equipment to the TV via **VIDEO** (yellow), **AUDIO R** (red) and **AUDIO L** (white) inputs. You should connect the jacks to the input in the same colour.

Back-AV output

Connect your camera or camcorder at the back side of your TV.

- Connect your equipment to the TV via **VIDEO, AUDIO R** and **AUDIO L** inputs. You should connect the jacks to the input in the same colour. Back AV output outputs only the information coming from the **ANT.** (aerial) socket, so you can not output external sources from Back AV output.

SVHS (via EXT.2)

If the equipment connected to your TV set supports S-Video (Y/C) output from Euroconnector, you can have a better picture quality by selecting **AV-2** mode and connecting your equipment to the **EXT.2** terminal of TV. See your equipment's booklet to check if your equipment has such feature.

Connect the decoder to the video recorder

Some video recorders have a special euroconnector for decoder.

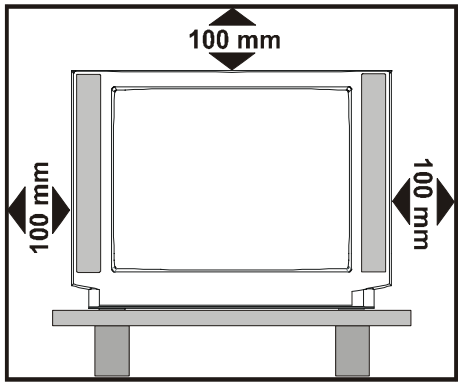
- Connect a eurocable to the euroconnector of your decoder and to the special eurocon-nector of your video recorder. See also the handbook of your video recorder.
- To connect your video recorder to the TV, see TV and Video Recorder section.

If you want to connect more equipment to your TV, consult your dealer.

Preparation

Place the TV on a solid surface.

If placing the TV into a cabinet or alcove, ensure there is at least a 100mm (10cm) gap to the sides and rear and top of the TV. This is to allow for adequate ventilation during operation. Please read below for more safety information before installation.



"Use this apparatus in tropical and/or moderate climates"

Features

- It is a remote controlled colour television.
- 100 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has Euroconnector socket for external devices (such as computer, video, video games, audio set, etc.)
- Second Euroconnector socket is available.
- Nicam Stereo sound systems.
- Teletext.
- All programmes can be named.
- Programme swapping between last watched two programmes.
- Forward or backward automatic tuning.
- Sleep timer.
- Automatic sound mute when no transmission.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- WSS (Wide Screen Signaling).
- NTSC Playback.
- SVHS (EXT.2) is available.
- Back AV in and Back AV out is available.

Safety Precautions

IMPORTANT SAFETY INFORMATION ON OPERATING YOUR TV

Do's and Don'ts

DO's

This Television has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO consult your dealer if you are in any doubt about installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

This TV is supplied with a fitted mains plug. This plug must not be cut off as it may contain a special radio interference filter, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate safety approved extension lead or consult your dealer.

Observe the manufacturers instructions when connecting extension leads to the TV. Check the fuse rating on the new plug, this should be fitted with a 5 Amp fuse which conforms to either ASTA or BSI (BS1 362) approvals, these are easily identifiable by either the ASA or S symbols. If you are in any doubt about the installation of an extension lead, please consult a competent electrician.

DON'Ts

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way switch off, withdraw the mains plug and consult your dealer.

DON'T place water filled vessels on top of T.V. cabinets.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs or stands to the TV with any screws other than those provided - to ensure complete safety always use the manufacturers approved stand with the fixings provided.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

- ***NEVER let anyone, especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electric shock.***
- ***NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry!***

1. Power Cord

The power supply cable should be placed so that it is not likely to be walked on or pinched by items placed on or against it. Pay particular attention to the cable

Where it enters the plug, power outlet, and the point where it emerges from the receiver.

2. Moisture and Water

Do not use this equipment in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this equipment to rain or water, as this may be dangerous and do not place objects filled with liquids on top. Avoid from dripping or splashing.

3. Cleaning

Before cleaning, unplug the receiver from the main supply outlet. Do not use liquid or aerosol cleaners. Clean with a soft dry cloth.

4. Lightning

To prevent damage during a storm, lightning or when going on holiday, disconnect the power lead and aerial from the wall outlet and disconnect the aerial plug from the back of the television.

5. Ventilation

The slots and openings on the receiver are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

6. Replacement Part

When replacement parts are required, be sure the service technician has used replacement parts which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock, or other hazards.

7. Servicing

Please refer all servicing to qualified personnel. Do not remove the back cover as this may result in an electric shock.

8. X-rays

This television has sheilding for protection against the emission of X-rays.

9. Flame sources

Do not place naked flame sources on the apparatus.

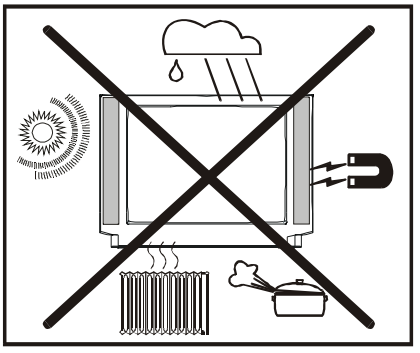
Warning!

Any intervention contrary to regulations, in particular, any modification of high voltage or a replacement of the picture tube may lead to an increased concentration of x-rays. Any television modified in this way no longer complies with license and must not be operated.

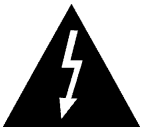
Instructions for waste disposal:

- *Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.*
- *Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area"*

"DO NOT LEAVE YOUR TV IN STAND-BY OR OPERATING WHEN LEFT UNATTENDED FOR A LONG TIME"



CAUTION
RISK OF ELECTRIC SHOCK



The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage"

within the product' enclosure that may be of sufficient magnitude to constitute a risk of an electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Before Switching on your TV

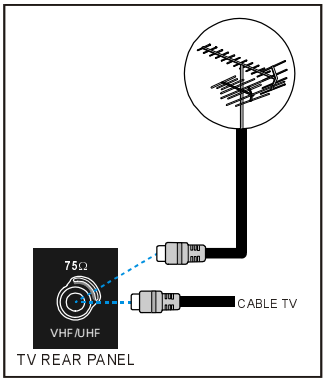
Power connection

IMPORTANT: The TV set is designed to operate on **220-240V AC, 50 Hz.**

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

Connections to the RF input socket

- Connect the aerial or cable TV plug into the RF input socket on the back of the TV.If you are also connecting a video recorder /satellite receiver, plug the aerial into this equipment first and then connect the RF output socket from this device to the RF input on the back of the TV.



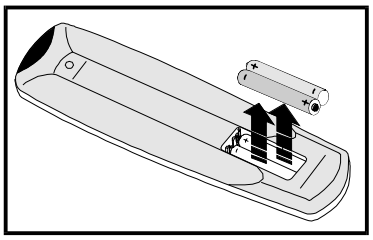
How to connect other devices

IMPORTANT: Switch off the TV before connecting any external device.

Sockets for external connections are at the back of the TV. For connection of other devices via Euroconnector refer to the manuals of the related devices.

Inserting batteries in the remote control handset

- Place the batteries in the right directions as seen below.
- Remove the battery cover located on the back of the handset by gently pulling upwards from the indicated part.
- Insert two **AAA (R03)** or equivalent type batteries inside.
- Replace the battery cover.



NOTE: *Remove batteries from remote control handset when it is not to be used for a long period.Otherwise it can be damaged due to any leakage of batteries.*

Switching the TV ON/OFF

To switch the TV on

Your TV will switch on in two steps:

1- Press the power button located on the front of the TV. Then the TV switches itself to standby mode and the **RED LED** located below the TV turns on.

2- To switch on the TV from stand-by mode either:

Press a digit button on the remote control so that a programme number is selected,

or,

Press Programme Up or Down buttons on the front of the TV or on the remote control, so that last switched off programme is selected.

In either case the TV will switch on and the **RED LED** will turn to **GREEN**.

To switch the TV off

- Press the stand-by button on the remote control, so the TV will switch to stand-by mode and the **GREEN LED** will become **RED**,

or,

Press the power button located on the front of the TV, so the TV will switch off and the **GREEN LED** will turn off.

Operating the TV

You can operate your TV both using the remote control handset and onset buttons.

Operating with the buttons on the TV set

Volume setting and programme selection can be made using the buttons on the front panel.

Volume Setting

- Press "**- VOL.**" button to decrease volume or "**VOL. +**" button to increase volume, so a volume level scale (slider) will be displayed at the middle of the bottom on the screen.
- By pressing both the "**VOL. +**" and "**- VOL.**" buttons at the same time you can enter Main menu.

Programme Selecting

- Press "**P/Ch +**" button to select the next programme or "**- P/Ch**" button to select the previous programme.

Entering Main Menu

- Press "**MENU**" button to enter Main menu. In the Main menu select sub-menu using "**- P/Ch**" or "**P/Ch +**" button and enter the sub-menu using "**VOL. +**" or "**- VOL.**" button. To learn the usage of the menus, refer to the Menu System section.

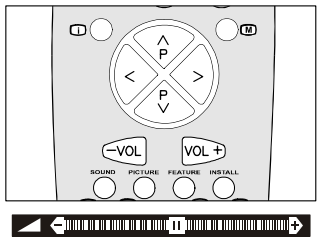
Operating with Remote Control

The remote control handset of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

Functions of the menu system are described in Menu System section.

Volume Setting

Press "**VOL+**" button to increase volume. Press "**VOL-**" button to decrease volume. A volume level scale (slider) will be displayed at the middle of the bottom on the screen.



Programme Selecting (Previous or next programme)

• Press "P▽" button to select the previous programme.

• Press "△P" button to select the next programme.

Programme Selecting (direct access):

Press digit buttons on the remote control handset to select programmes between 0 and 9. TV will switch to the selected programme. To select programmes between 10 - 99, you must use the double digit button "- -".

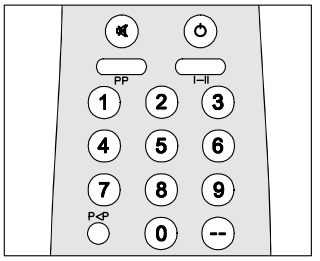
P - - this OSD is displayed at the left hand upper on the screen.

After this, press the digit buttons consecutively for the programme you want to select (eg. for programme 27, first press 2 and then 7). If the second digit is not entered within 3 seconds, this function will disappear.

Press directly the programme number to reselect single digit programmes.

Programme Swapping

• Press "**P<P**" (programme swap) button to select the last selected programme. This button provides swapping between last two selected programmes. For example, select programme 8, then select programme 2. Now, if you press "**P<P**" button, programme 8 will be selected. If you press the same button again, programme 2 will be selected and so on.

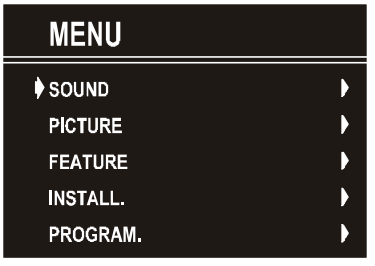


Menu System

Your TV has been designed with a menu system, to provide an easy manipulation of a multi-function system. The TV is controlled by choosing the commands, which are displayed on the screen.

Press the "M" button. The Main menu will be displayed at the middle on the screen.

All the selected items in this menu system is indicated with **CYAN** characters and with an arrow on the leftside of items.



To select a sub-menu use "△P" or "P▽" button, and press "◁" or "▷" button. Each option can also be selected with the coloured button and "i" button on the remote control.

MAIN MENU

The menu system is described below.

The short way in order to enter the menus, press :

"M" Button, Main Menu.

Red Button, Sound Menu.

Green Button, Picture Menu.

Yellow Button, Feature Menu.

Blue Button, Install Menu.

"i" Button, Programme Menu.

Menu button has two functions; first is opening or closing the "**MAIN MENU**", and the second is closing the sub-menu and then opening its parent menu.

Sound Menu

To change sound settings

• Enter the Sound Menu directly, pressing the Red button or,

• As you enter the main menu, sound will be the first selected option. In the main menu, select **SOUND** using "△P" or "P▽" button, then enter the sound menu pressing "◁" or "▷" button.

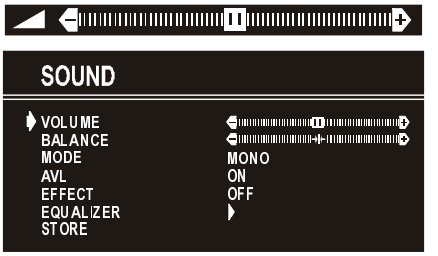
Setting Volume:

As you enter the sound menu, Volume will be the first selected option.

• Press "▷" button to increase volume.

• Press "◁" button to decrease volume.

Or you can directly change the volume settings using "**VOL+**" (to increase) or "**-VOL**" (to decrease) button.



Setting Balance

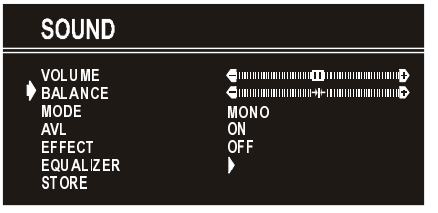
It allows adjusting the distribution between the left and right speakers.

• Using "△P" or "P▽" button select Balance.

• Press "▷" button to change balance rightward.

• Press "◁" button to change balance leftward.

When balance control is in mid position, the cursor is displayed with the two reciprocal arrows.



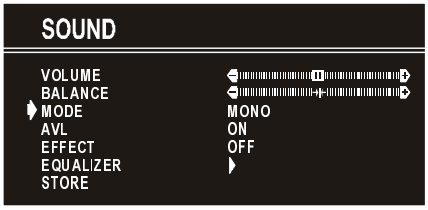
Selecting Mode

• Using "△P" or "P▽" button select Mode.

• Press "◁" or "▷" button to change Mode.

You can choose **MONO**, **STEREO** or **DUAL (I-II)** mode, only if the selected channel supports that mode.

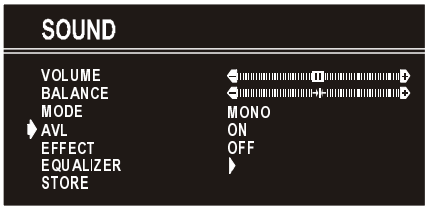
You can also change sound mode directly pressing "**I-II**" button on your remote control.



In case of bilingual broadcast (Dual Sound), you can select original or dubbed language using mode option.

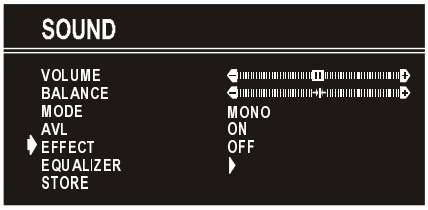
Setting AVL

Automatic Volume Limiting (AVL) function normalises sound to obtain fixed output level between programs, having different sound levels. Pressing "◁" or "▷" button will turn on and off this feature.



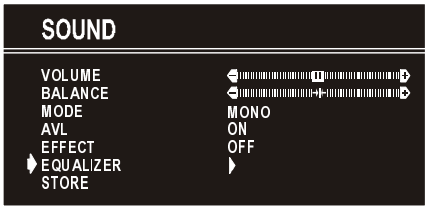
Setting Effect

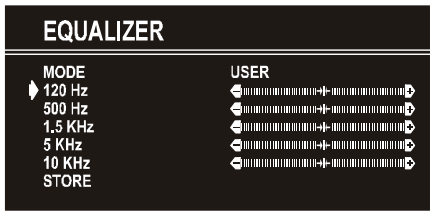
You can use this feature to switch the sound effect on and off. Pressing "◁" or "▷" button will turn on and off this feature. If the current sound system is **MONO** and the sound effect is set **ON**, then the sound will be heard as if it is **STEREO**. If the current sound system is **STEREO**, switching this effect on will make the sound deeper. Switching it off will make no change in **MONO** and **STEREO**.



Equalizer

To enter Equalizer sub-menu, select Equalizer using "$\frac{\triangle}{P}$" or "$\frac{P}{\triangledown}$" button, then enter Equalizer menu pressing "◁" or "▷" button.





In MODE item there are five predefined and one user defined options. These are **USER, CLASSIC, JAZZ, ROCK, POP** and **FLAT**. The predefined options can not be changed by the user. If you change one of the frequency values of the predefined options, the MODE is switched automatically to USER option. The USER option may be adjusted by the user.

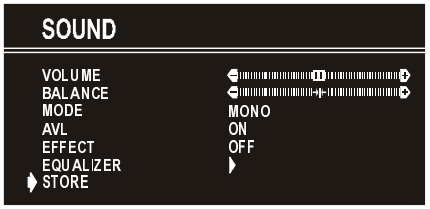
The 5 items below the MODE are available to adjust the sound settings in 5 frequency values: 120 Hz, 500 Hz, 1.5 kHz, 5 kHz and 10 kHz. To change the values of 5 frequency options, select one of the options by "$\frac{\triangle}{P}$" or "$\frac{P}{\triangledown}$" button, and then press "▷" to increase the value, or "◁" to decrease the value. In mid position, cursor is displayed with the two reciprocal arrows.

To store the Equalizer settings, press "◁" or "▷" button on "**STORE**" option.

During the store process all the items are stored, moreover, the USER mode information would not be lost. In other words, when the user mode is selected again, after storing the MODE with one of the predefined options, the user definde frequency values would be set.

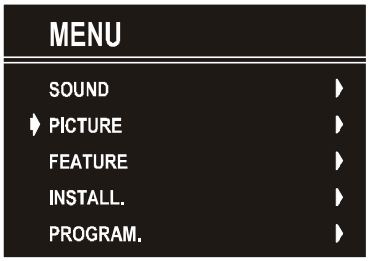
To Store the Settings

- Press "◁" or "▷" button on "**STORE**" option to store Sound menu settings.



Picture Menu

- To enter the Picture menu directly, press the "**GREEN**" button, or
- Press "Ⓜ" button, now you are in Main menu. In the Main menu, select "**PICTURE**" using "$\frac{\triangle}{P}$" or "$\frac{P}{\triangledown}$" button, then enter the Picture menu pressing "◁" or "▷" button.



Setting Brightness

• As you enter the picture menu, Brightness will be the first selected option.

• Press "▷" button to increase brightness.

• Press "◁" button to decrease brightness.

Setting Contrast

• Using "P△" or "P▽" button select Contrast.

• Press "▷" button to increase contrast level.

• Press "◁" button to decrease contrast level.

Setting Colour

• Using "P△" or "P▽" button select Colour.

• Press "▷" button to increase colour level.

• Press "◁" button to decrease colour level.

Setting Sharpness

• Using "P△" or "P▽" button select Sharpness.

• Press "▷" button to increase peaking level.

• Press "◁" button to decrease peaking level.

Setting Hue

(During Playback NTSC system, this will appear in AV mode only when NTSC video source is applied. Otherwise, HUE option is invisible in Picture menu.):

• Using "P△" or "P▽" button select Hue.

• Press "▷" button to increase hue level.

• Press "◁" button to decrease hue level.

Center value is indicated with the two reciprocal arrows.

Mode

This item is used to change the picture size. By pressing "◀" or "▶" button you may choose one of these options: "4:3", "16:9" and "AUTO". It is also possible to change picture modes directly by pressing button "EXT" on your remote control.

• **4:3** This option forces the picture ratio to 4:3 mode.

• **16:9** This option forces the picture ratio to 16:9 mode.

• **AUTO** This allows to change the picture mode automatically, according to the transmission of the selected channel. For example, your TV is 4:3 mode, but the transmission of that channel is in 16:9 mode. If you select the AUTO mode, the TV is switched to 16:9 mode automatically. If the TV is in 4:3 mode and the picture ratio of the channel is also 4:3, there will be no affect selecting the picture mode to AUTO mode.

WSS feature is only used in **TV** and **B-AV** modes. For the Picture Mode selection in **AV-1** and **AV-2** the pin 8 (of Scart) value is used. In **RGB** and **SVHS** modes the Picture Mode can be 4:3, 16:9 (Auto mode is not available.).

When the menu appears on screen, picture mode will automatically change to its default tube mode (4:3 or 16:9) but it will turned to its stored mode when the menu disappears.

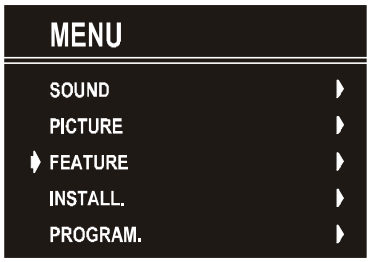
To Store the Settings

• Press "◁" or "▷" button on **STORE** option to store Picture menu settings except Picture Mode.

Feature Menu

• To enter the Feature menu directly, press the "**YELLOW**" button, or

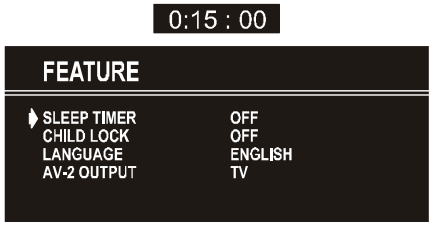
• Press "M" button, now you are in Main menu. In the Main menu, select **FEATURE** using "P△" or "P▽" button. Then enter the Feature menu pressing "◁" or "▷" button.



Sleep Timer

As you enter the Feature menu, **SLEEP TIMER** will be the first selected option. Use "◀" or "▶" button to change the Sleep Timer values between **OFF, 0:15:00, 0:30:00, 0:45:00, 1:00:00, 1:15:00, 1:30:00, 1:45:00** and **2:00:00**.

It is displayed on the upper right of the screen. If sleep timer is activated it is displayed with the TV status and erased with it after 3 seconds.

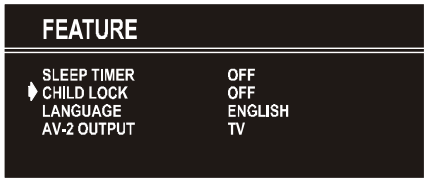


If there is left only one minute of the down counting of the timer, it is displayed automatically on the upper right of the screen, and stayed there until finishing. Then TV goes automatically to stand-by.

Child Lock

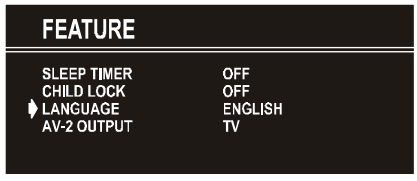
You can use this feature to prevent children turning on TV or changing programs or adjustments etc. without remote control.

The **CHILD LOCK** feature can be set by "◀" or "▶" button to either **ON** or **OFF**. When **OFF** is selected, there will be no difference in the operation of your TV. When **ON** is selected, the TV can only be controlled by the remote control handset. In this case, the front panel buttons (except the Switch On/Off button) will not work.



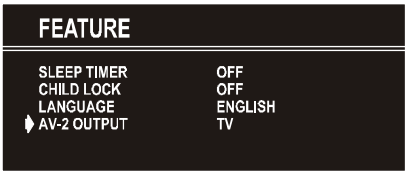
Selecting Menu Language

Menu language can be chosen by pressing "◀" or "▶" button on **LANGUAGE** item.



AV-2 OUTPUT

From **AV-2 OUTPUT**, either TV or **AV-1** can be given. **TV** or **AV-1** can be chosen by pressing "◀" or "▶" button on "**AV-2 OUTPUT**".

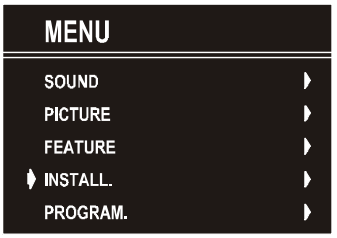


To Store Settings

In Feature menu all settings are stored automatically.

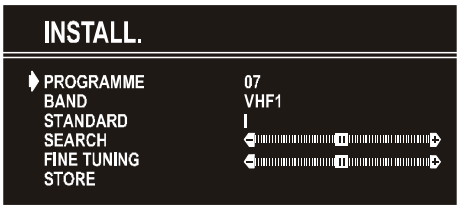
Install Menu

- To enter the Install menu directly, press the **BLUE** button, or
- Press "Ⓜ" button, now you are in Main menu. In the Main menu, select "**INSTALL.**" using "△P" or "P▽" button. Then enter the Install menu pressing "◁" or "▷" button.



Selecting Programme

To select programme number, you can use "◁" or "▷" button, Digit Buttons or The Double Digit button with digit buttons.



Selecting Band

BAND, can be chosen either,

- VHF1, VHF3 or UHF by "◁" or "▷" button.

Standard

The "**Standard**" setting is fixed to "**I**". You cannot change this item's setting.

Selecting Search

To start the search process, press "▷" button for forward search or "◁" button for backward search. **SEARCH** item blinks during search process, since the process is stopped or signal is found. During search process the semi-transparent menu background becomes "**BLUE**". To stop the search process "◁" or "▷" button must be pressed again.

Selecting Fine Tuning

You can use the Fine Tuning process for fine adjustment (after coarse adjustment), if you are not happy about the image on the screen.

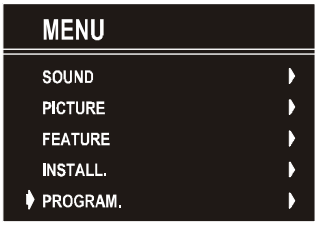
Use "◁" or "▷" button on **FINE TUNING** item, until getting the best image on the screen.

To Store Settings

Press "◁" or "▷" button on **STORE** option to store Install menu settings.

Programme Menu

- To enter Programme menu directly, press the "i" button, or
- Press "M" button, now you are in Main menu. In the Main menu, select "**PROGRAM.**" using "P△" or "P▽" button. Then enter the Programme menu pressing "◁" or "▷" button.



By moving the cursor in four directions you can reach 30 programmes in the same page. By scrolling the pages up or down by pressing the navigation buttons you can select all the programmes in TV mode (except the AV mode).

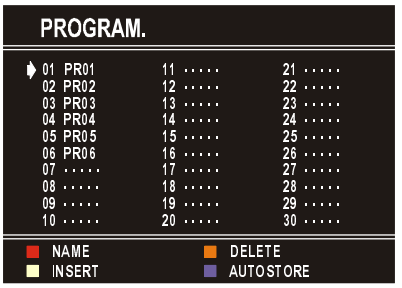
In menus, "P△" and "P▽" buttons are working like "Direction Up" and "Direction Down".

By cursor action, programme selection is done automatically. Selected programme is displayed with **"CYAN"** characters. In order to select programme is also possible by using digit or double-digit button. In this way programme selection is automatic and after selection the selected programme is displayed with cyan characters. The TV Status is changed by the programme selection too. When using double-digit button in order to select a programme, the Programme Number in TV Status OSD is displayed in "**P --**" form, and by pressing digit buttons they are displayed in it.

Programme Number is between 00 and 99. Programme Name has a name string with 5 characters. After autostore process the Programme Names are set to "**PR01**" (programme number),

At the bottom of the menu there is a programme sort functions section. Each function is activated by color button (seen below). **NAME** allows changing the programme name. By **DELETE** you can delete programmes that you decided. **INSERT** section is for inserting programmes into another programme spaces. By selecting **AUTOSTORE** section, Autostore menu will be available.

To change the name of a decided programme, Select the programme and push the **RED (NAME)** button. The first letter begins to blank on the selected name. To change that letter "P△" or "P▽" button can be used, and to select the other letters, "◁" or "▷" button can be used. If the cursor is at the last letter of the Programme Name, pressing "▷" button moves the cursor at the beginning. On the contrary, if the cursor is at the beginning of the Programme Name, pressing "◁" button moves the cursor at the end.



After changing the name by pressing the **RED** button (**STORE**) it is stored. After activating the name process the "**INSERT**", "**DELETE**" and "**AUTOSTORE**" processes will be inactive and "**CANCEL**" option will be valid. This option cancels the name process, if the new name do not want to be stored.

When the **GREEN** button is pressed, "**NAME**", "**AUTOSTORE**" and "**DELETE**" functions are erased, the selected programme (A) is displayed with green characters. From now on, the automatic selection is canceled. Cursors moves are indicated with "**CYAN**" characters. With navigation buttons, the decided program space (B) can be selected and by pressing the green button again the programme will be inserted into that space.

All programmes below the inserted programme will move down by one number.

"**CANCEL**" function cancels the activated "**INSERT**" process.

For "**DELETE**" process press the yellow button, ("**NAME**", "**INSERT**" and "**AUTOSTORE**" functions are inactive). Pressing yellow button again erases the selected programme from the programme list, and the programmes below shift one up. Pressing blue button cancels the activated "**DELETE**" process.

To enter Autostore menu, press to the blue button. To learn the features of this function see "**AUTOSTORE**" below.

Autostore

Autostore, searches and stores all channels automatically on your TV, according to the transmission of programme systems in your area.

PROGRAMME item is used in order to store the channels after Autostore, as from a required programme. In default the programme number is set to the following programme after the last set programme. By using "◁" or "▷" button the number can be changed, in addition to change number digit button or double digit button can be used too.

The "**Standard**" setting is fixed to "**I**". You cannot change this item's setting.

To cancel **AUTOSTORE** before starting, press "TV" button. To select "**START**" use "P△" or "P▽" button and press "◁" or "▷" button. To cancel **AUTOSTORE** during running press "◁" or "▷" button.

After Autostore is finalized, a programme list will apper on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and/or the programme names of programmes, you can change them in Programme menu.

Other Features

TV Status

Programme Number, **Programme Name (**or **AV)**, (they are displayed on the upper left of the screen) and **Sleep Timer** (shows the time left on the upper right screen if enabled). In stereo options the sound indicator is displayed with them too. They are displayed after programme change for 3 seconds.

P 01 Programme Number

PR-01 Programme Name (5 characters)

These OSD's are displayed when a new programme is entered by digit button, by pressing "**P<P**" button, or by "△P" or "P▽" button, or by "TV" button.

Programme Swap (P<P)

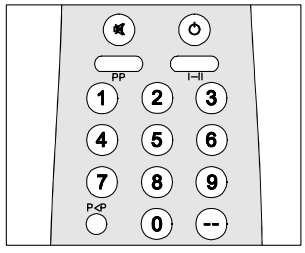
This button is used to reenter to the preceding entered programme again. Pressing "**P<P**" consecutively allows to swap into two last entered programmes.

Double-digit (- -)

This OSD is displayed when the "Double-Digit" button pressed in place of the programme number indicator.

P - -

After that, in order to enter a programme press two digits consecutively. Both digits must be entered within 3 seconds or the function will disappear.



Personal Preferences (PP)

All the preset values will be restored, when pressing "**PP**".

PP

Sound Indicator

This is a stereo option. The alternatives of the indicator are Mono, Stereo, Dual I and Dual II. This indicator is displayed under the programme number indicator on the screen. "**I-II**" button is used to select Mono or Stereo, or Dual I or Dual II.

MONO

In Mono broadcast or in forced-mono (for stereo broadcast).

STEREO

In Stereo broadcast.

DUAL I

If dual broadcast detected. Dual I is selected in default and also can be selected after Dual II by Remote Control.

DUAL II

If Dual II selected by Remote Control.

Picture Mode

The picture mode OSD is displayed below the sound indicator, by TV Status OSD's. According to the WSS data, inside of the OSD box "4:3", "16:9" or "AUTO" is written.

By pressing "EXT" button (if Teletext is not active) the picture mode can be switched into 4:3, 16:9 or Auto Mode.

4:3

Sleep Timer Last Minute Indicator

It is displayed on the upper right of the screen. If sleep timer is activated it is displayed with the TV status and erased with it after 3 seconds.

If there is only one minute of the countdown left of the timer, it is displayed automatically on the upper left of the screen, and stayed there until finishing. Then TV goes automatically to stand-by.

0:15 : 00

Mute Indicator

It is placed in the upper middle of the screen when enabled, and it stays there until it is disabled.

To cancel mute, there are two alternative; the first one is pressing to "🔇" button, thus volume is set to the preceding value, and the second one is increasing the volume level, thus it starts at the minimum level to increase. By decreasing the volume level in mute state, mute will not be ignored, only the volume level will decrease. If mute is cancelled after decreasing the volume level, the volume will return at the decreased level.

No-Signal

No-Signal Timer Indicator

It is displayed in the middle of the screen when no valid signal detected. It shows the time remaining before the switching to the Stand-By mode (it takes 5 minutes when no signal detected or no any Remote Control command is accessed). The indicator is displayed for 3 seconds when there is no valid signal.

After an Remote Control command (if No-Signal Timer is active) the timer stops and if no signal detected again the timer is initialized to 5 minutes and starts 3 seconds later again to count down.

It is not valid in AV mode.

05 : 00

Blue Background During No-Signal

In case, no valid signal is detected (in TV or AV mode) Blue Background is activated.During search process Blue Background is not active. But instead there is another feature given; the semi-transparent menu background is made blue.

Volume Bar

It is displayed in the lower middle of the screen. When a volume command is received (pressing **"Vol+"** or **"Vol-"** by Remote Control or Front panel) and no menu is active, it stays on the screen for 3 seconds, after the last volume command or until another command is received in between.

AV Modes

By pressing the "AV" button you can switch your TV to AV modes (except being in Teletext). Pressing this button will consecutively switch the TV in one of the optional AV modes: **AV-1, AV-2, B-AV (Back AV), RGB (EXT.1)** or **SVHS (EXT.2)**.

AV-1 supports the **RGB** mode and **AV-2** supports **SVHS** mode unless there is an **SVHS** socket.

In order to quit the AV mode press the "TV" button.

Teletext

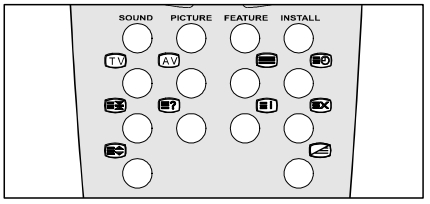
Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

On screen display is not available in text mode.

Contrast, brightness or colour control is not available, but volume control is available in text mode.

To operate Teletext

- Select a TV station on which Teletext is being transmitted.
- Press (TELETEXT) " " button. Usually the list of contents (index) is displayed on the screen.

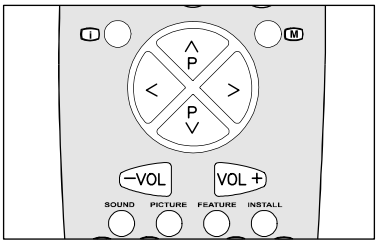


To select a page of Teletext

- Press the appropriate digit buttons for the required Teletext page number.

The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page number is located, so that the desired page is displayed on the screen.

- Press "P" button to move the Teletext screen forward one page at a time.
- Press "P" button to move the Teletext screen backward one page at a time.



To Select Index Page

- To select the page number of the index (generally page 100), press " " button.

To Select Teletext with a TV Programme

- Press " " button. The text is now superimposed over the programme on the screen.
- Press " " button again to return to the Teletext page.

Searching for a page while watching TV

- While Teletext Mode is on, pressing " " will change the mode to TV, one more press to " " will change the mode from TV to the latest Teletext page we left. In the TV mode enter a page number using digit keys. As you enter digits first line of teletext page will appear on top screen and will remain there until the requested page is found. Then teletext line will be replaced by page number to indicate that page has been found. Now you can display this teletext page pressing " " button.

To Select Double Height Text

- Press " " button for the top half of the information page to be displayed in double height text.
- Press " " button again for the bottom half of the information page to be displayed in double height text.
- Press " " button once more for the full page of normal height text.

To Reveal "concealed" Information

- Pressing " " button once will reveal answers on a quiz or games page.
- Pressing " " button again will conceal the revealed answers.

To Stop Automatic Page Change

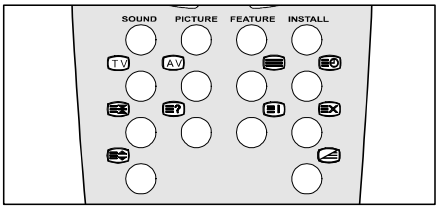
The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

- Press " " button to stop the automatic page change.
- Press " " button again to allow the next page to be displayed.

To Select a Subcode Page

Subcode pages are subsections of long Teletext pages that can only be displayed on the screen one section at a time.

- Select the required Teletext page.
- Press " " button.
- Select the required subcode page number by pressing four digit buttons (e.g. 0001).
- If the selected subcode page is not displayed in a short time, press " " button. TV programme will be displayed on the screen.
- Teletext page number will be displayed on the upper left corner of the screen when the selected page is found.
- Press " " button to display the selected Teletext page.



To exit Teletext

- Press "TV" button. The screen will switch to TV mode.

To Display the Time

- While watching a TV programme with Teletext transmission press " " button. The current time information, captured from Teletext will be displayed at the upper middle of the screen for 5 seconds.
- If the programme being watched does not have Teletext transmission, no iformation will be displayed.

Tips

Care of the Screen

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the TV screen coating layer

Poor Picture

Have you selected the correct TV system? Is your TV set or house aerial located too close to the loudspeakers, non-earthed audio equipment or neon lights, etc. ?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

Is the picture or Teletext unrecognisable? Check if you have entered the correct frequency.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Picture

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

No Picture means that your TV is not receiving any transmission. Have you pressed the correct keys on the remote control? Try once more.

Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing "" key?

Sound is coming from only one of the speakers. Is the balance set to one direction extreme? See SOUND menu.

Remote Control

Your TV no longer responds to the remote control. Press the "TV" button on the remote control once more. Perhaps the batteries are exhausted. If so you can still use the local keys at the front of your TV.

Have you selected the wrong menu? Press "TV" key to return to TV mode or press "M" to return to the previous menu.

No solution

Switch your TV set off and on. If this does not work, call the service personnel; never attempt to repair it yourself.

Specifications

TV BROADCASTING
PAL I/I'

RECEIVING CHANNELS
VHF (BAND I/III)
UHF (BAND U)
HYPERBAND
CABLE TV (S1-S20 / S21-S41)

NUMBER OF PRESET CHANNELS 100

CHANNEL INDICATOR
On Screen Display

RF AERIAL INPUT
75 Ohm (unbalanced)

OPERATING VOLTAGE
220-240V AC,50 Hz.

AUDIO OUTPUT
Nicam Stereo

AUDIO OUTPUT POWER ($W_{RMS.}$) (%10 THD)
2 x 10

POWER CONSUMPTION (W) (max.)
135

ST-BY POWER CONSUMPTION (W)
<3

PICTURE TUBE
28" (72 cm.)

DIMENSIONS (mm)

D	L	H	WEIGHT (kg)
468	740	561	32

UK Guarantee

Your Guarantee of Excellence

Thank you for purchasing this Hitachi Television.

In the unlikely event that this product should develop a fault, we undertake to replace or repair any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that:

i) The product has been installed and used only in accordance with the instructions supplied with the product.

ii) The product has not been repaired, maintained, or modified by any person other than an Hitachi authorised engineer

iii) The product serial number has not been removed or altered

This guarantee does not apply to product acquired second hand or for commercial or communal use

This guarantee does not cover the replacement of exhausted batteries, the adjustment of user controls, or aerial alignment.

Any parts replaced under this guarantee shall become the property of Hitachi Europe Ltd.

Please note that evidence of the date of purchase will be required before any service under this guarantee is carried out.

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